

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P459119

Luminaire Tested: **GALN-SA6A-735-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459119
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6A-735-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25206 lumens
Efficiency: N/A
Efficacy: 138.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

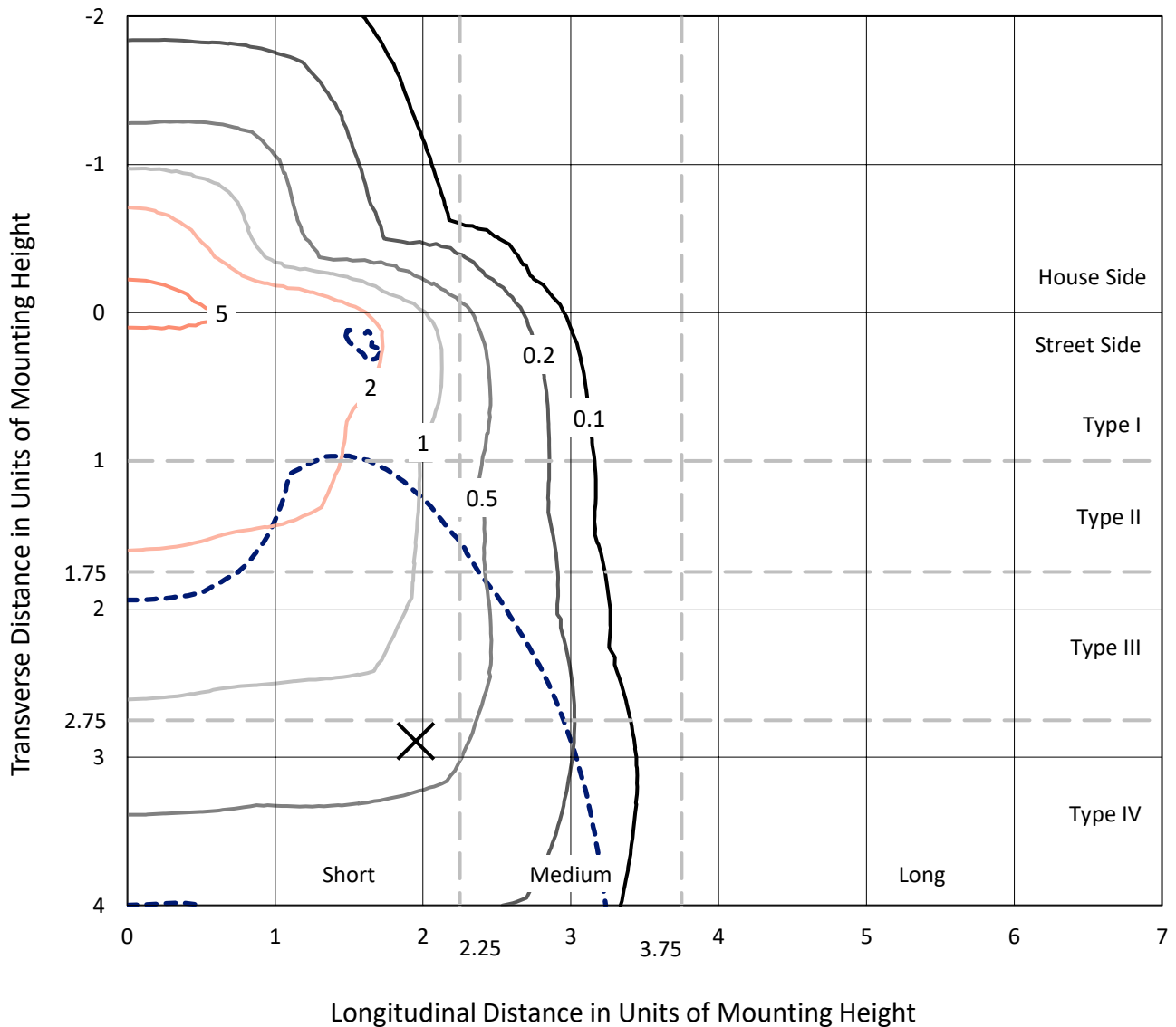
Input Watts (W): 182
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P459119
 CATALOG NUMBER: GALN-SA6A-735-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

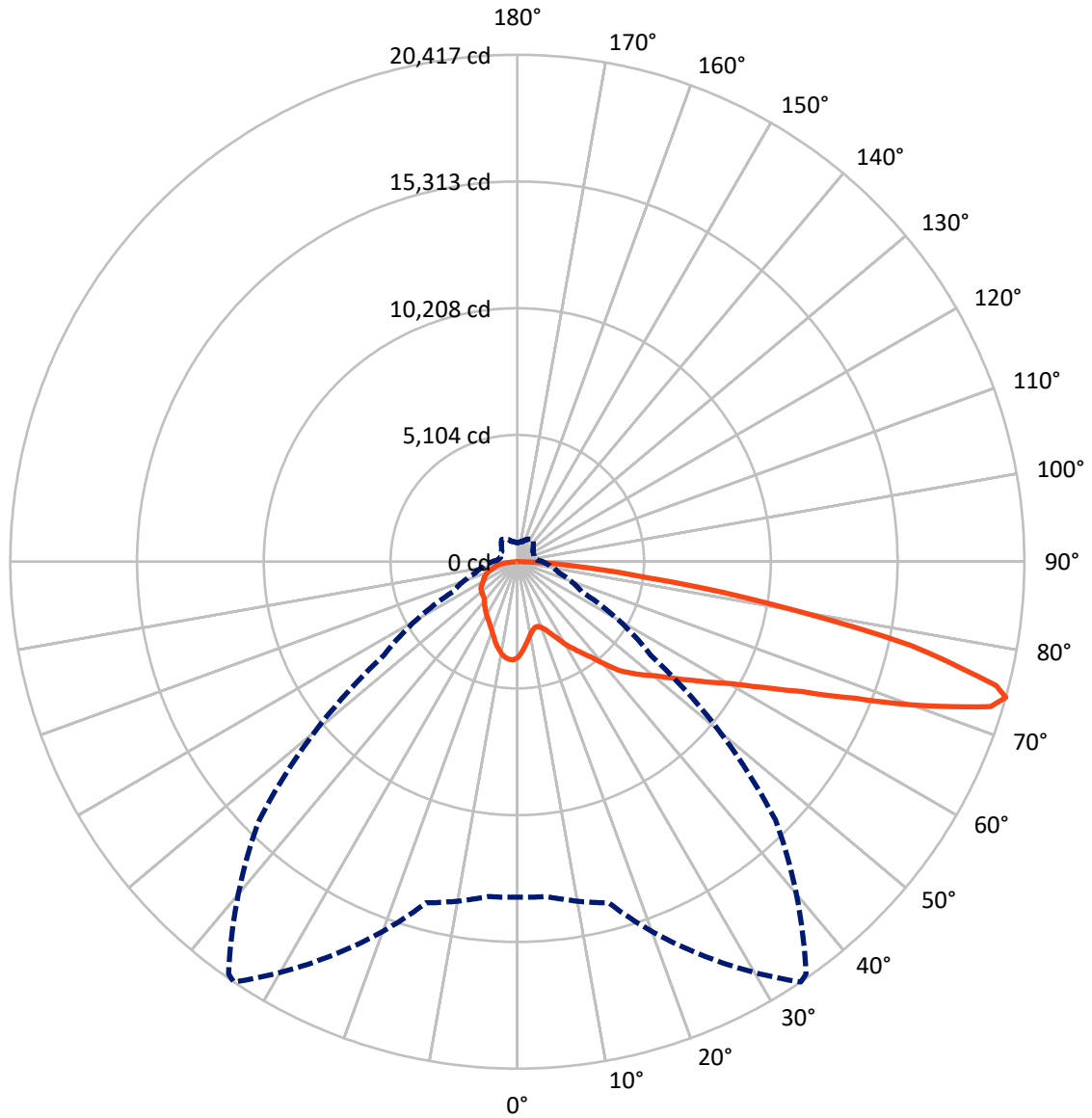
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type IV - Short - N/A

REPORT NUMBER: P459119
CATALOG NUMBER: GALN-SA6A-735-U-T4FT

Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

REPORT NUMBER: P459119

CATALOG NUMBER: GALN-SA6A-735-U-T4FT

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5364.0	0.0	5364.0
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	19842.0	0.0	19842.0
	% Fixture	78.7	0.0	78.7
Total	Lumens	25206.0	0.0	25206.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	350.0	1.4
10°-20°	958.1	3.8
20°-30°	1579.7	6.3
30°-40°	2366.2	9.4
40°-50°	3439.8	13.6
50°-60°	4804.6	19.1
60°-70°	6015.0	23.9
70°-80°	4974.0	19.7
80°-90°	718.7	2.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	25206.0	100.0
0°-180°	25206.0	100.0

Coefficient of Utilization



REPORT NUMBER: P459119

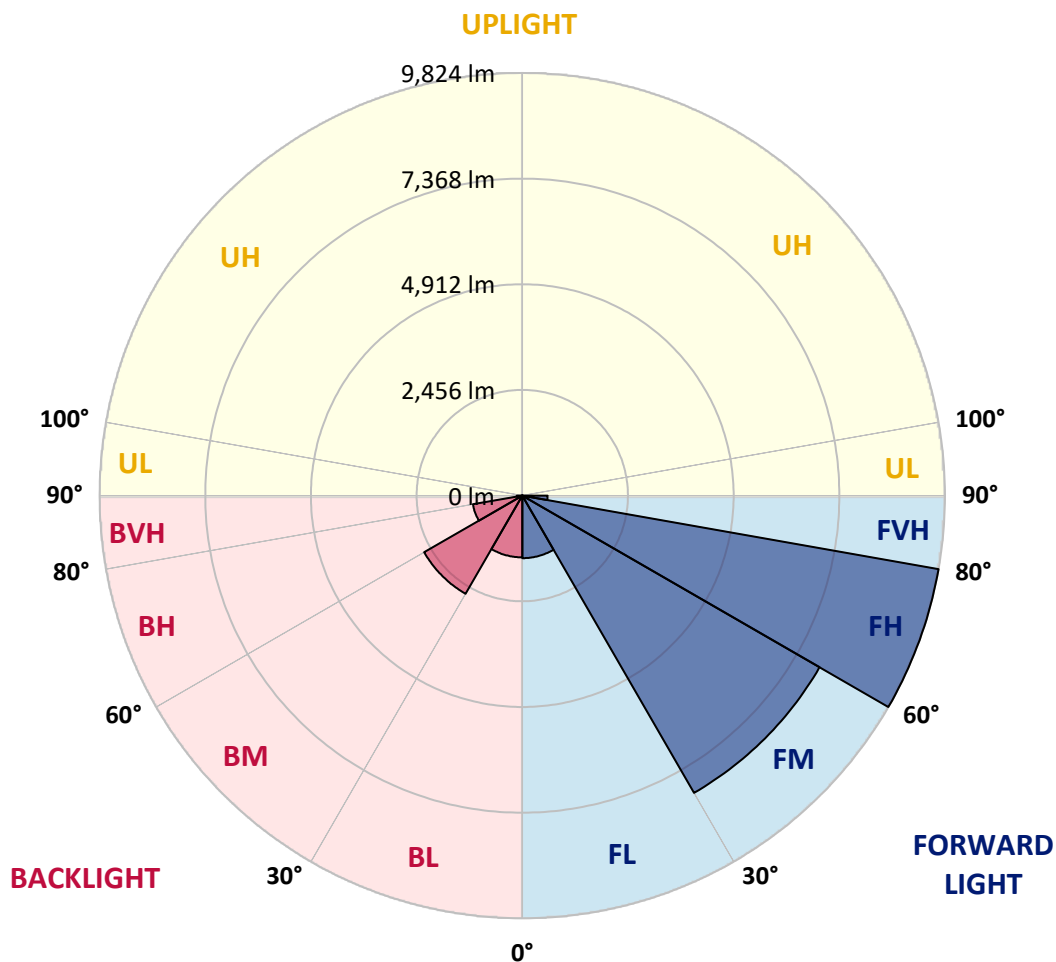
CATALOG NUMBER: GALN-SA6A-735-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1453.0	5.8			
FM	(30°-60°)	7976.2	31.6			
FH	(60°-80°)	9824.0	39.0			G4/12000
FVH	(80°-90°)	588.8	2.3			G4/750
BL	(0°-30°)	1434.8	5.7	B3/2500		
BM	(30°-60°)	2634.3	10.5	B3/5000		
BH	(60°-80°)	1165.0	4.6	B3/2500		G3/2500
BVH	(80°-90°)	129.9	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





REPORT NUMBER: P459119

CATALOG NUMBER: GALN-SA6A-735-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	3848.5	3848.5	3848.5	3848.5	3848.5	3848.5	3848.5	3848.5	3848.5	3848.5	3848.5
2.5°	3556.6	3574.8	3584.5	3619.4	3627.8	3639.0	3668.3	3707.4	3757.7	3802.4	3841.5
5°	3260.6	3288.5	3305.3	3336.0	3396.0	3401.6	3479.8	3569.2	3671.1	3766.1	3844.3
7.5°	2979.9	3010.6	3024.6	3080.4	3160.0	3172.6	3287.1	3428.1	3598.5	3742.3	3862.4
10°	2769.0	2784.4	2815.1	2857.0	2952.0	2960.4	3109.8	3298.3	3518.9	3731.2	3893.1
12.5°	2654.5	2662.9	2669.9	2714.6	2808.1	2820.7	2977.1	3190.8	3456.1	3739.5	3943.4
15°	2671.3	2674.1	2643.4	2651.7	2727.2	2745.3	2900.3	3119.5	3417.0	3760.5	4018.8
17.5°	2812.3	2802.6	2727.2	2688.1	2741.1	2749.5	2884.9	3091.6	3398.8	3799.6	4097.0
20°	3034.4	3020.4	2890.5	2804.0	2834.7	2841.7	2935.2	3112.6	3417.0	3863.8	4218.5
22.5°	3310.8	3305.3	3108.4	3003.6	3002.2	3002.2	3051.1	3188.0	3471.4	3951.8	4345.6
25°	3697.6	3668.3	3411.4	3275.9	3238.2	3235.4	3229.9	3312.2	3541.3	4045.3	4496.4
27.5°	4094.2	4044.0	3814.9	3606.9	3525.9	3516.1	3479.8	3488.2	3630.6	4151.5	4668.1
30°	4450.3	4418.2	4203.1	3972.7	3876.4	3854.0	3753.5	3707.4	3780.0	4342.8	4941.8
32.5°	4722.6	4703.0	4535.5	4326.0	4183.6	4179.4	4032.8	3995.1	4013.2	4574.6	5254.6
35°	4943.2	4950.2	4865.0	4683.5	4520.1	4496.4	4398.6	4351.2	4298.1	4909.7	5648.4
37.5°	5244.9	5260.2	5254.6	5098.2	4898.5	4904.1	4881.8	4803.6	4662.6	5283.9	6085.5
40°	5577.2	5588.4	5587.0	5526.9	5422.2	5427.8	5419.4	5330.0	5119.2	5760.1	6571.4
42.5°	6036.6	5983.5	5845.3	5905.3	5966.8	5993.3	6050.6	5965.4	5676.3	6268.4	7028.0
45°	6550.5	6449.9	6137.1	6165.1	6392.7	6443.0	6758.5	6641.2	6281.0	6852.1	7565.7
47.5°	6874.4	6775.3	6511.4	6505.8	6807.4	6856.3	7414.8	7371.6	6831.2	7481.9	8222.0
50°	7163.5	7149.5	6852.1	6923.3	7218.0	7290.6	8129.8	8089.3	7379.9	8224.8	8936.9
52.5°	7592.2	7479.1	7241.7	7388.3	7777.9	7872.9	8839.2	8720.5	7884.0	8881.1	9630.9
55°	7784.9	7758.4	7744.4	7871.5	8406.3	8474.7	9529.0	9256.7	8314.1	9436.8	10158.8
57.5°	8300.2	8251.3	8389.5	8476.1	9146.4	9251.1	10249.5	9816.6	8691.1	9878.1	10415.7
60°	8967.6	8941.1	9068.2	9224.6	9973.0	10132.2	11070.6	10294.2	8994.2	10100.1	10274.7
62.5°	9964.7	9961.9	9938.1	10273.3	11144.6	11291.2	12013.2	10759.2	9041.6	9933.9	9545.7
65°	11394.6	11344.3	11137.6	11503.5	12602.4	12774.2	12994.8	11018.9	8755.4	9080.7	8037.6
67.5°	12890.1	12887.3	12719.7	13194.5	14695.6	14873.0	14222.3	10961.7	7960.8	7356.2	5708.5
70°	14130.1	14070.1	14283.7	15548.8	17369.7	17575.0	15296.1	10287.2	6341.0	4858.0	3391.8
72.5°	14427.5	14430.3	14874.4	17364.1	19937.7	19969.8	15682.9	8337.9	4243.6	2679.7	1696.6
74°	13511.5	13535.2	14223.7	17454.9	20416.7	20271.4	14694.2	6553.3	2869.6	1749.7	1223.2
75°	12332.9	12183.5	13179.2	16850.3	19919.5	19763.1	13536.6	5258.8	2189.5	1397.8	1071.0
77.5°	6593.8	6746.0	8282.0	12574.5	16182.8	16002.7	9178.5	2521.9	1182.7	973.3	770.8
80°	2347.3	2588.9	3639.0	6579.8	10375.2	10431.1	4380.5	1156.2	832.2	717.7	544.6
82.5°	957.9	984.5	1562.6	2919.9	5268.6	5318.9	1788.8	687.0	594.9	494.3	325.4
85°	374.2	385.4	691.2	1312.6	2248.2	2394.8	618.6	363.1	365.9	283.5	166.2
87.5°	125.7	142.4	283.5	437.1	763.8	748.5	180.1	107.5	131.3	122.9	51.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P459119

CATALOG NUMBER: GALN-SA6A-735-U-T4FT

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3848.5	3848.5	3848.5	3848.5	3848.5	3848.5	3848.5	3848.5	3848.5	3848.5	3848.5
2.5°	3861.0	3887.6	3905.7	3925.3	3943.4	3949.0	3944.8	3957.4	3958.8	3960.2	3961.6
5°	3883.4	3919.7	3954.6	3974.1	3982.5	3975.5	3951.8	3939.2	3928.1	3919.7	3922.5
7.5°	3914.1	3965.8	3997.9	4006.3	3983.9	3951.8	3893.1	3847.1	3817.7	3798.2	3796.8
10°	3961.6	4011.8	4038.4	4014.6	3953.2	3875.0	3782.8	3696.3	3630.6	3611.1	3609.7
12.5°	4021.6	4078.9	4077.5	4007.6	3900.1	3760.5	3611.1	3510.5	3421.2	3376.5	3394.6
15°	4099.8	4143.1	4102.6	3976.9	3806.6	3615.3	3430.9	3294.1	3193.5	3146.1	3148.9
17.5°	4190.6	4228.3	4120.8	3922.5	3675.3	3429.5	3215.9	3086.0	3006.4	2971.5	2968.7
20°	4303.7	4314.9	4120.8	3827.5	3506.3	3213.1	3009.2	2918.5	2873.8	2855.6	2861.2
22.5°	4425.2	4402.8	4098.4	3693.5	3284.3	2986.9	2850.0	2809.5	2787.2	2784.4	2787.2
25°	4562.0	4499.2	4052.3	3511.9	3052.5	2791.4	2711.8	2718.8	2723.0	2723.0	2732.7
27.5°	4729.6	4603.9	3975.5	3282.9	2781.6	2609.9	2587.5	2636.4	2658.7	2662.9	2669.9
30°	4950.2	4718.4	3848.5	2996.7	2551.2	2446.5	2485.6	2551.2	2576.3	2591.7	2588.9
32.5°	5212.7	4844.1	3676.7	2710.4	2365.5	2332.0	2379.5	2446.5	2474.4	2482.8	2471.6
35°	5521.3	4986.5	3450.5	2442.3	2203.5	2223.1	2278.9	2299.9	2325.0	2325.0	2330.6
37.5°	5853.7	5101.0	3174.0	2196.5	2077.8	2149.0	2189.5	2170.0	2158.8	2144.9	2151.8
40°	6191.6	5186.2	2815.1	1953.6	1952.2	2072.2	2083.4	2027.6	1982.9	1968.9	1961.9
42.5°	6486.2	5239.3	2491.2	1765.0	1833.5	1996.8	2005.2	1915.9	1844.6	1802.7	1788.8
45°	6833.9	5300.7	2174.2	1608.6	1723.1	1936.8	1957.7	1837.7	1732.9	1645.0	1622.6
47.5°	7310.1	5440.3	1924.2	1487.2	1643.6	1899.1	1928.4	1773.4	1635.2	1520.7	1502.5
50°	7847.7	5631.7	1730.1	1404.8	1582.1	1865.6	1901.9	1707.8	1544.4	1417.3	1403.4
52.5°	8340.7	5735.0	1562.6	1330.8	1522.1	1804.1	1867.0	1660.3	1455.0	1314.0	1301.4
55°	8610.2	5567.4	1397.8	1258.1	1439.7	1724.5	1818.1	1594.7	1368.5	1259.5	1241.4
57.5°	8646.5	5221.1	1248.4	1180.0	1353.1	1626.8	1727.3	1515.1	1312.6	1221.8	1206.5
60°	8365.8	4704.4	1132.5	1115.7	1265.1	1516.5	1625.4	1445.3	1255.4	1180.0	1164.6
62.5°	7667.6	4143.1	1051.5	1057.1	1175.8	1400.6	1550.0	1378.2	1200.9	1133.9	1119.9
65°	6466.7	3419.8	973.3	997.0	1096.2	1309.8	1481.6	1322.4	1146.4	1099.0	1086.4
67.5°	4492.2	2468.8	909.1	934.2	1020.8	1217.7	1402.0	1262.3	1085.0	1059.9	1040.3
70°	2487.0	1519.3	833.6	863.0	942.6	1114.3	1312.6	1171.6	995.6	984.5	956.5
72.5°	1307.0	967.7	748.5	780.6	836.4	981.7	1175.8	1072.4	907.7	860.2	823.9
74°	1020.8	793.2	691.2	724.7	762.4	903.5	1094.8	1001.2	844.8	789.0	761.0
75°	889.5	706.6	642.3	685.6	719.1	850.4	1031.9	950.9	809.9	756.8	731.7
77.5°	628.4	529.2	525.0	576.7	594.9	745.7	930.0	865.8	721.9	666.1	642.3
80°	441.3	396.6	416.1	448.2	473.4	659.1	863.0	748.5	592.1	526.4	518.1
82.5°	287.7	259.7	297.4	326.8	335.1	485.9	696.8	568.3	431.5	350.5	325.4
85°	132.7	129.9	170.4	166.2	164.8	237.4	413.3	332.3	248.6	185.7	174.5
87.5°	33.5	32.1	41.9	34.9	41.9	36.3	37.7	9.8	1.4	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)